Abstract

The invention relates to a wear-resistant coating, in particular an erosion-resistant coating for a component that is exposed to fluidic loads.

According to this invention, the wear-resistant coating has one or more multilayer systems (15, 16) applied repeatedly to the surface to be coated, whereby each of the applied multilayer systems (15, 16) has at least four different layers. A first layer (17) of each multilayer system facing the surface to be coated is made of a metallic material adapted to the composition of the component surface to be coated. A second layer (18) applied to the first layer of each multilayer system is made of a metal alloy material adapted to the composition of the component surface to be coated. A third layer (19) applied to the second layer of each multilayer system is made of a gradated metal ceramic material and a fourth layer (20) applied to the third layer of each multilayer system is made of a nanostructured ceramic material.

(Figure 2)